Thursday, June 02, 2011 10:09:53 AM

Page 1

Item ID:

D3391-023

Accept



Setup Start



Stop

Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 6/16/2011

6/2/2011

QC:

Start Qty: 1.00

Reg'd Oty: 1.00



Cust Item ID:

Customer:

Reference:

A	pp	rov	als:

Process Plan: , M

Date:

Date:

Tooling:

Date:

Date:

Run

Start

Stop

Sequence ID/

Operation

SPC (Y/N): Set Up/

Tool ID

Accept

Reject

Insp.

Work Center ID

Description

Run Hours

9

Tool # Plan Code

Qty **Qty** Reject Number

Stamp

Draw Nbr

Revision Nbr

D3391

Rev H

WAY.



Skidtubes Skidtubes

Skidtubes

Memo

0.00

0.00

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

7-Deburr

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker,

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to (20 holes) as per Dwg D3391 Ø0.297"

11-6-13

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Page 2

Item ID:

Thursday, June 02, 2011 10:09:53 AM

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Setup Start



Stop

Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/2/2011

D3391-023

Start Oty: 1.00

Required Date: 6/16/2011 Req'd Oty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Date: _____

Process Plan: Date: Tooling:

SPC (Y/N):

Date: Date: Run Start

Stop

Sequence ID/ Work Center ID Operation Description

QC:

Set Up/ **Run Hours** Tool ID

Tool # Plan

11-6-13

Code

Accept Qty

Reject Reject Qty Number

Insp. Stamp

11-Open .375" holes to .438" ***do not open fwd saddle holes***

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill ar remaining fwd saddle holes using DT 8149 locating from previusly drill .18 dia hole, using t-pins and clicos to ensure perfect allingment, open up previusi tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia, in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previusly drilled holes, drill remaining wearplate holes into D3391-021.

15-Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

11-6-14



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Thursday, June 02, 2011 10:09:53 AM



Page 3

Item ID:

D3391-023

Accept

Setup Start

Run

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/2/2011 Start Qty: 1.00

Required Date: 6/16/2011 Reg'd Oty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

QC:

Process Plan:

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Date:_____

Tooling:

SPC (Y/N):

Date:

Date:

Start



Stop

Sequence ID/

Work Center ID

110

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Memo

Set Up/ **Run Hours**

Tool ID

Tool # Plan Code

Reject Accept Qty QtyReject Number

Insp. Stamp

120

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

0.00

130

Quality Control

QC3- Inspect Part Finish

Memo

Memo

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0.00

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Work Order ID 70263

Thursday, June 02, 2011 10:09:53 AM



Page 4

Item ID:

D3391-023

Accept

Setup Start

Stop

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/2/2011

Start Otv: 1.00

Required Date: 6/16/2011

Reg'd Oty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Operation

Skidtubes

Description

Date: Tooling:

Set Up/

Run Hours

Date:

Date:

Run Start



OC:

Date:

SPC (Y/N):

0.00

0.00

Tool ID

Tool # Plan

Code

Accept Qty

Reject **Qty**

Reject Number

Insp. Stamp

Sequence ID/ **Work Center ID**

140

Skidtubes

Skidtubes

Memo

Memo

Memo

1-Open float bag holes as per dwg

2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & OSI 015.

Adhere for 12 hours)

A/R Sikaflex exp: 12/01 batch#: M116945

150

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

0.00

1 8 BEU/06/17

Skidtubes

0.00

0.00

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

AR MIT456

160

Skidtubes

Skidtubes

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W/O:			WO	RK ORDER CHANG	ES				
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Work Order ID 70263

Thursday, June 02, 2011 10:09:53 AM



Page 5

Item ID:

D3391-023

Accept



Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Cust Item ID:

Customer:

Start Date:

6/2/2011 Required Date: 6/16/2011 Start Qty: 1.00 Req'd Qty: 1.00

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling:

Date:

Run

Qty

Start

QC:

Date: _____ SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID**

170

Operation **Description**

QC10- Inspect visual per QSI004- ground welds

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours** Tool ID

Tool # Plan Code

Accept Qty

Reject Reject Number

Insp. Stamp

Quality Control

180

Quality Control

Memo

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0.00

5 w/06/20

185

HandFinish Hand Finishing Pressure Wash per QSI005 4.3

Memo

0.00

Memo

0.00

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Work Order ID 70263

Thursday, June 02, 2011 10:09:53 AM



Page 6

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/2/2011

Start Qty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Required Date: 6/16/2011

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/

Work Center ID

190

200

QC

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

Set Up/ **Run Hours**

0.00

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

START TIME: OVEN TEMPER FINISH TIME:

0.00

QC3- Inspect Part Finish

0.00

Memo

Memo

0.00

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Quality Control

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W/O:			WC	ORK ORDER CHANG	ES				
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Work Order ID 70263

Thursday, June 02, 2011 10:09:53 AM



Page 7

Item ID:

D3391-023

Accept

Setup Start

Stop

Stop

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Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/2/2011

Start Qty: 1.00

Required Date: 6/16/2011 Req'd Oty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Date:

Start Run



QC:

Date:

SPC (Y/N):

Set Up/

Run Hours

Tool ID

Tool # Plan

Accept Code Qty

Reject Qty

Reject Number

Insp. Stamp

210

Sequence ID/

Work Center ID

Skidtubes Skidtubes

Skidtubes

Operation

Description

Memo

0.00

0.00

T- insert D3391-021 into D3391-23

2- insert T-pins into first and third fwd saddle holes

3-ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364

4- remove T-pins and locate DT9415 from first and third crossbolt hole using Tpins and clekos

5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415

6- deburr, re-alodine and blow out chips

7- press fit D3591-1 spacers using DT9416 starting from 0.500" side

0.00

220

Quality Control

Memo

QC5- Inspect part completeness to step on W/O

0.00

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Thursday, June 02, 2011 10:09:53 AM

Page 8

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 6/16/2011

6/2/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: _____ Date:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start Stop



Sequence ID/

Work Center ID 230

HandFinish

Hand Finishing

Operation

Description

HandFinishing

Memo

Install Inserts as per Dwg

Set Up/ **Run Hours**

0.00

0.00

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

240

QC

QC5- Inspect part completeness to step on W/O

Wolelzz

0.00

Memo

Quality Control

250

Packaging Packaging

Memo

Identify as per dwg & Stock Location: (D D

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0.00

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Page 9

Thursday, June 02, 2011 10:09:53 AM

Item ID:

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Accept



Setup Start

Stop



Revision ID: Item Name:

Mid Tube Assembly

Start Date:

6/2/2011

Start Qty: 1.00

Req'd Qty: 1.00



Date: _____

Cust Item ID:

Customer:

Reference:

Approvals:

Required Date: 6/16/2011

Process Plan:

Date:

Tooling:

Date:

Date:

Start Run

Stop



Sequence ID/

Operation Work Center ID Description

QC: ___

QC21- Final Inspection - Work Order Release

Set Up/

Run Hours

SPC (Y/N):

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp.

260

QC

Memo

0.00 0.00

Number

Stamp

Quality Control

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Picklist Print

Thursday, June 02, 2011 10:09:49 AM

Work Order ID: 70263

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 6/2/2011

Required Date: 6/16/2011

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

 $EC\square$

IPP C 07.03.20 EC EC

KJ/EC 🗆

IPP D 07.03.28

re-format

IPP E 07.10.31 ecn 1053P

EC

IPP Rev:F ECN 1056 07-11-13 DD

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

verified by: EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

rev F dwg

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100 Skidtube Extrusion		Manufactured	No			100	Each	87.0000	1	1			
				Location HALL	37065	<u>Loc</u>	Qty 87 12 75	Loc Code		Ĺ		1/-	6-13
D3391-021 Fwd Tube Assembly		Manufactured	No		B701	100 28	Each	0.0000) {	Q ,		
D3389-1		Manufactured	No	•		140	Each	2.0000		1	J*, ''	-6-	14)

Web

Location

Loc Code

LG

68999

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Loc Qty

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Picklist Print

Thursday, June 02, 2011 10:09:49 AM

Page 2

Work Order ID: 70263

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 6/2/2011

Required Date: 6/16/2011

Start Qty: 1.00

Required Qty: 1.00

D3681-1

Spacer

Manufactured No 160

Each 32.0000

Manufactured No

Location Loc Qty LG 32 68958 2 69516 30 210 Each

Bushing

ALS4-1032-130

D3591-1

No

Purchased

Location Loc Qty ST068 43 57350 6 66147___ 37 230 Each

2,232.000

Loc Code

Loc Code

43.0000

Loc Code

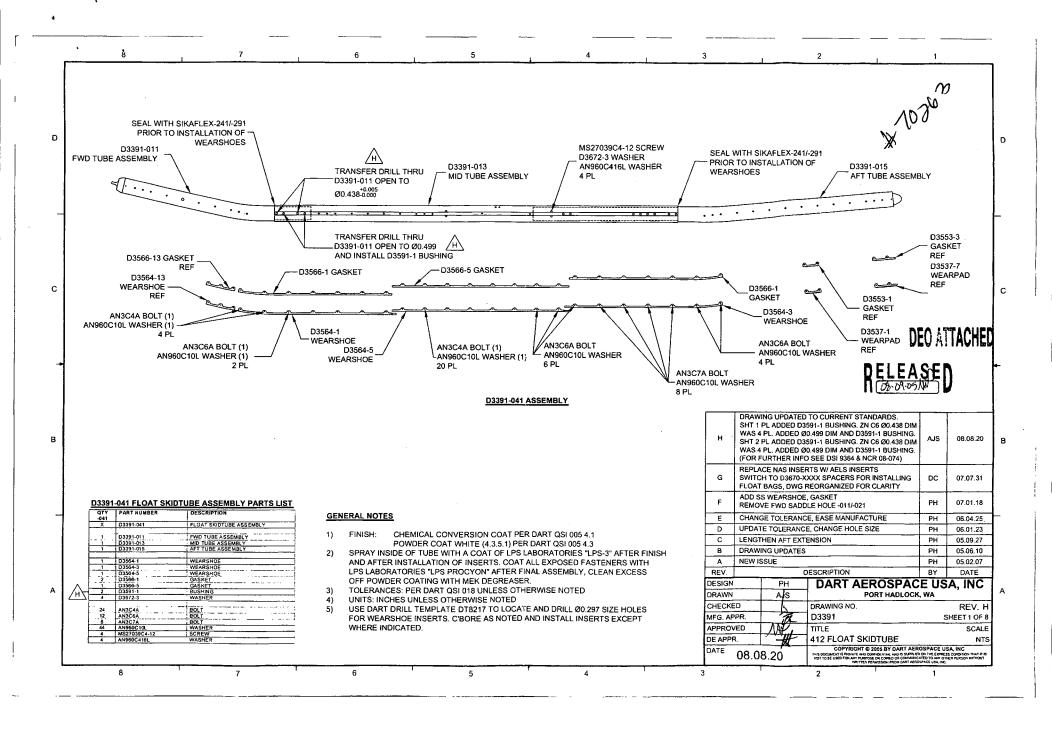
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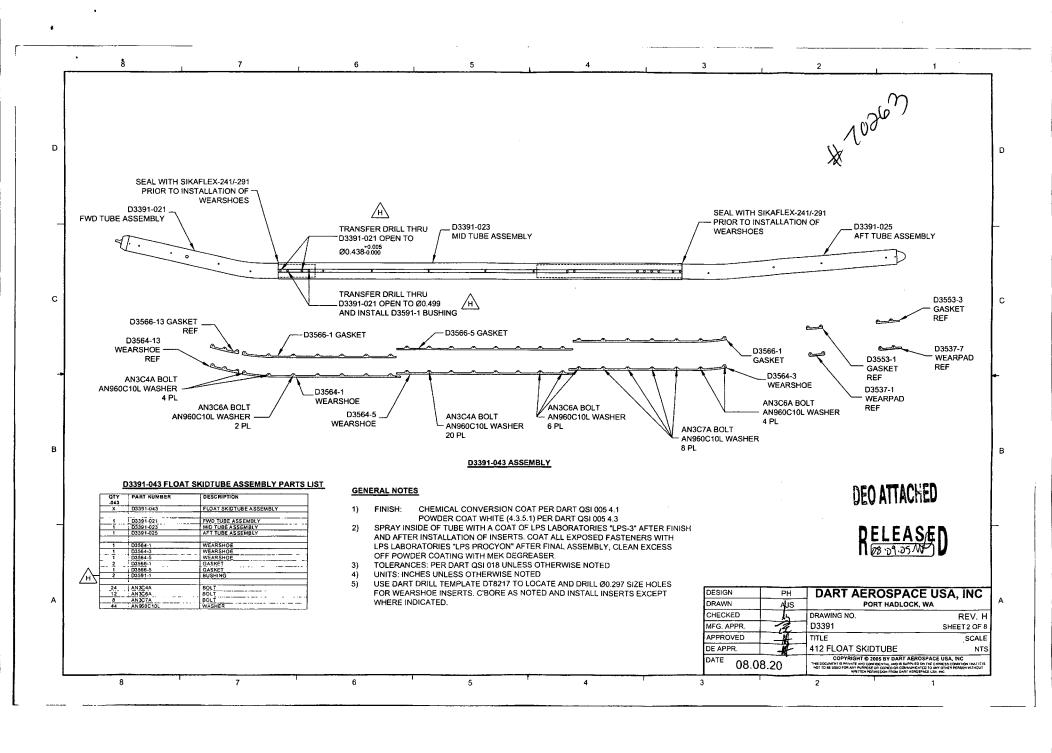
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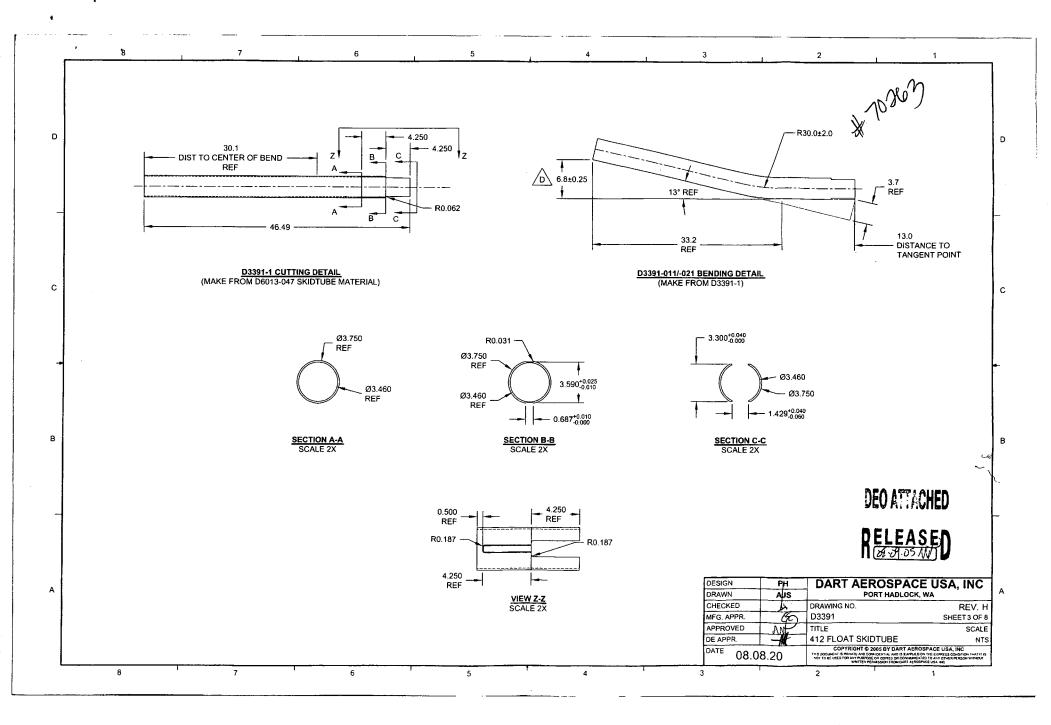
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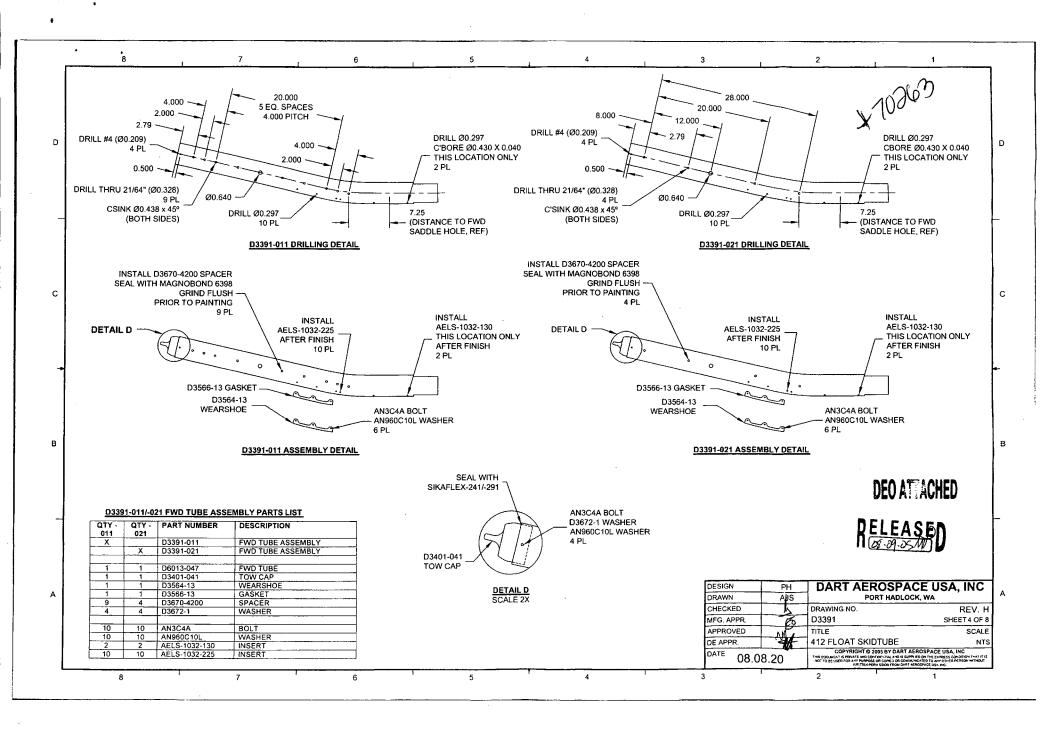
										
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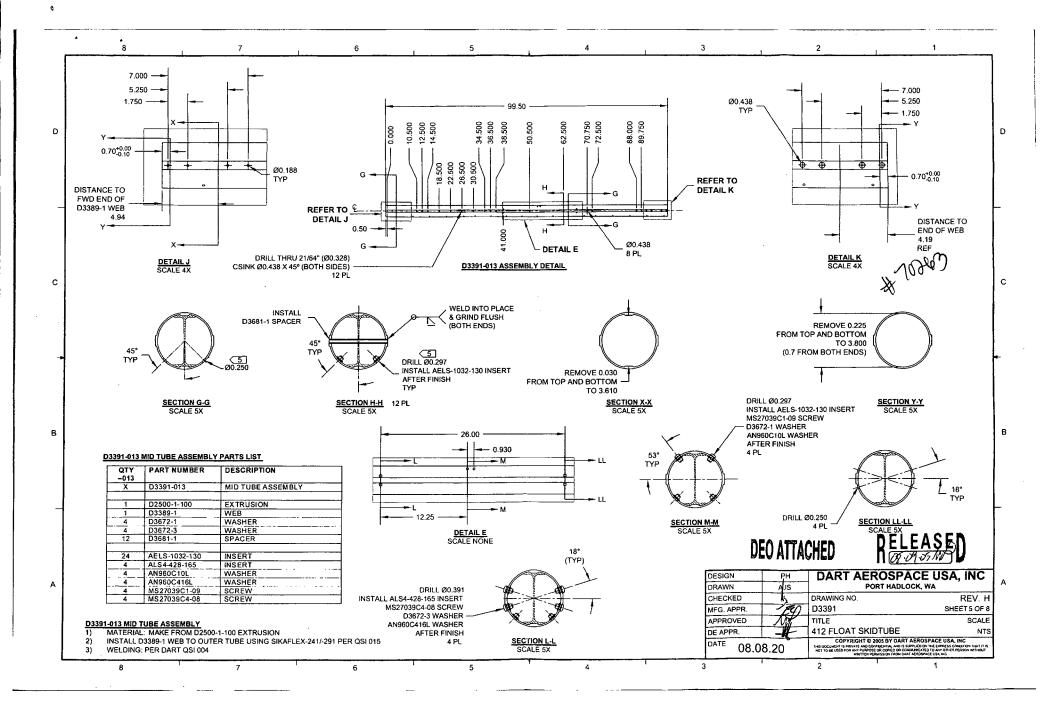
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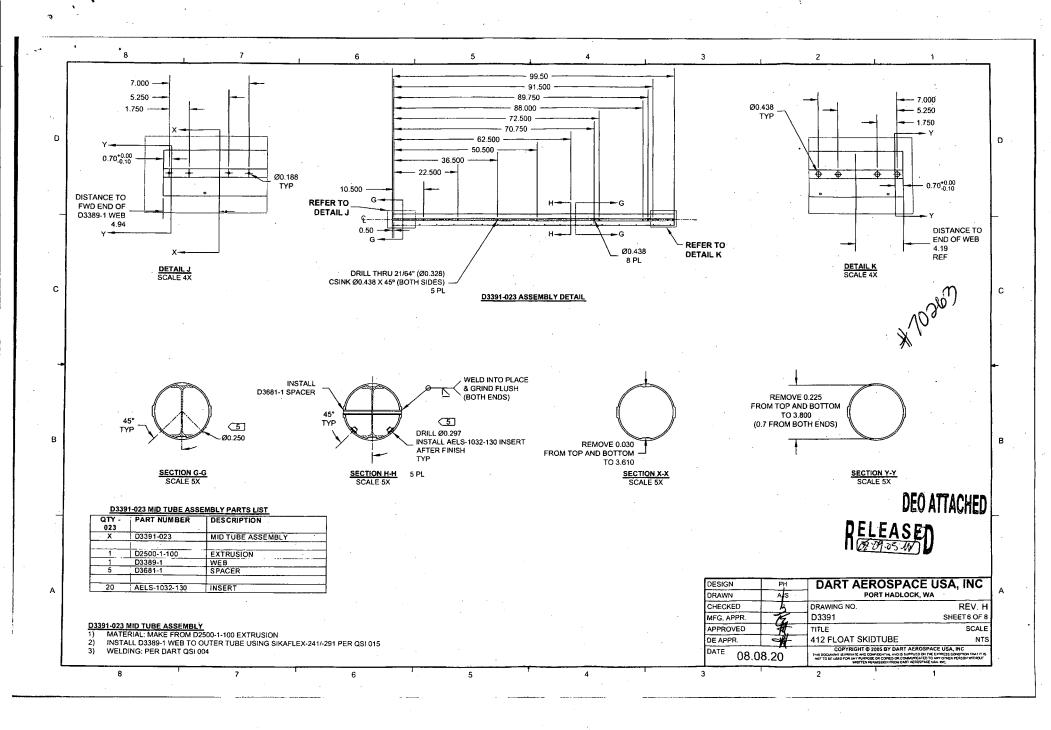
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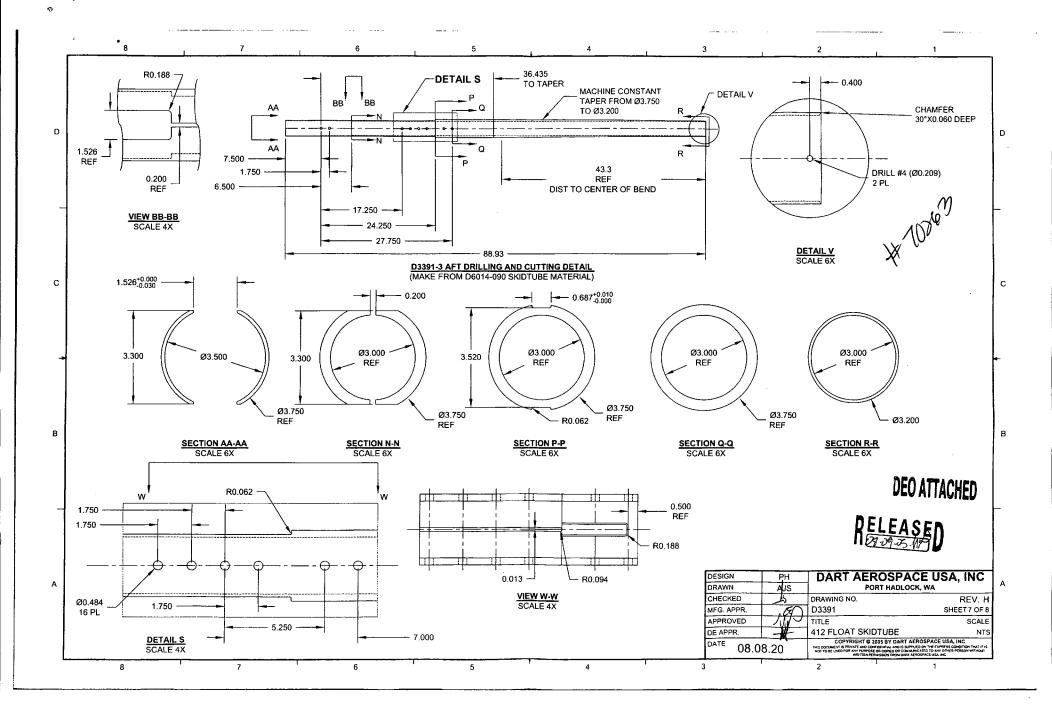
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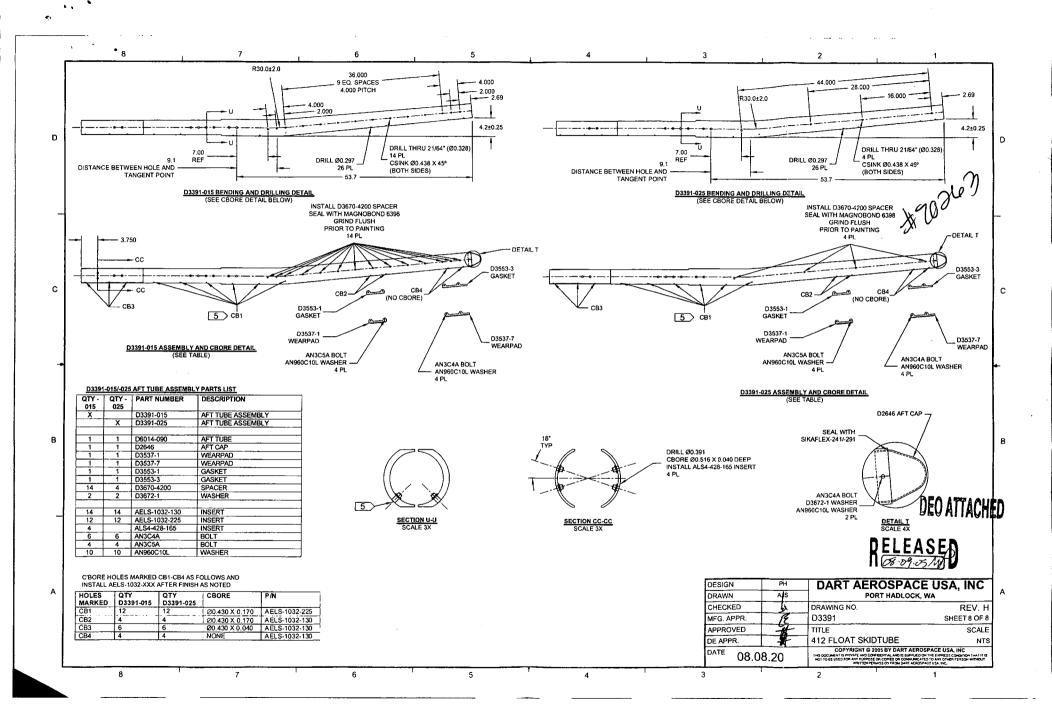
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DRAWING	NO. TITLE		REV. H	DART AEROSPACE	USA, INC D.E.O. NO.	SHEET NO.	SCALE
D3391_	412 FLC	AT SKIDTUBE	1	ENGINEERING O	RDER D3391-H-1	SHEET 1 OF, 1	NTS
DRAWN	(P	CHECKED	I,	MFG. APPR.	APPROVED NA	DE APPR.	
DATE	09.09.23	DATE	04.04.24	DATE 09/09/25	DATE 09/09/30	DATE 09/09/3	5

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH-AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.



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NO. 256

AWS D17.1.2001 QUALIFICATION TEST RECORD

$\gamma - \gamma = \langle 11 \rangle F$
Name: Danlay (//vol
Job number: 0370180
Part number: <u>0339</u> - 023
Description: Mid Tube
Welding Process: Tig[Mig[]
Base materiel: (iliminum
Current: AC[V] DC[]

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[fail[] pass[fail[]
UNACCEPTABLE	
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[fail[]
Qualifier fat fices Welder Rorclay Child	Date of Test Coupon // 06.20 Date of Test Coupon // 06.20

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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